

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~An infra-red reflecting~~ A layered structure, ~~said layered structure~~ comprising consecutively:

an infra-red reflecting layered structure, said infra-red reflecting layered structure comprising:

a first transparent substrate layer;

a first metal oxide layer;

a first silver containing layer;

a second metal oxide layer;

a second silver containing layer;

a third metal oxide layer;

a first adhesive layer;

a second transparent substrate layer;

a second adhesive layer; and

a glass substrate,

wherein said infra-red reflecting layered structure further ~~comprising~~ comprises at least one protective intermediate layer comprising gold, said protective intermediate layer being located on both sides of at least one of the first and second silver containing layers;

said first, second and third metal oxide layer having a refractive index of at least 2.40 at a wavelength of 500 nm and said infra-red reflecting layered structure ~~laminated on glass,~~ having a visual light transmittance (VLT) higher than 70 % and a solar heat gain coefficient (SHGC) lower than 0.44.

2. (Currently Amended) ~~An infra-red reflecting~~ A layered structure according to claim 1, wherein said infra-red reflecting layered structure has a light to solar gain ratio (LSG ratio) higher than 1.60.

3. (Currently Amended) ~~An infra-red reflecting~~ A layered structure according to claim 1, wherein said first, second and third metal oxide layer comprises TiO_2 .

4. (Currently Amended) ~~An infra-red reflecting~~ A layered structure according to claim 3, wherein said TiO_2 is mainly composed of rutile phase.

5 - 6. (Cancelled)

7. (Currently Amended) ~~An infra-red reflecting~~ A layered structure according to claim 1, wherein said first and second silver containing layer have a thickness between 10 and 25 nm.

8. (Currently Amended) ~~An infra-red reflecting~~ A layered structure according to claim 1, wherein said first, second and third metal oxide layer have a thickness between 25 and 70 nm.

9. (Currently Amended) ~~An infra-red reflecting~~ A layered structure according to claim 1, wherein the infra-red reflecting layered structure is a transparent heat-mirror.

10. (Withdrawn) A method of reducing the number of silver containing layers in an infra-red reflecting layered structure, said method comprising the following steps:

providing a transparent substrate layer;

depositing upon said substrate layer a first metal oxide layer having a refractive index of at least 2.40 at a wavelength of 500 nm;

depositing upon said first metal oxide layer a first silver containing layer;

depositing upon said first silver containing layer a second metal oxide layer having a refractive index of at least 2.40 at a wavelength of 500 nm;

depositing upon said second metal oxide layer a second silver containing layer;

depositing upon said second silver containing layer a third metal oxide layer having a refractive index of at least 2.40 at a wavelength of 500 nm.

11. (Withdrawn) A method of improving the visual light transmittance of an infra-red reflecting layered structure, said method comprising the following steps :

providing a transparent substrate layer;

depositing upon said substrate layer a first metal oxide layer having a refractive index of at least 2.40 at a wavelength of 500 nm;

depositing upon said first metal oxide layer a first silver containing layer;

depositing upon said first silver containing layer a second metal oxide layer having a refractive index of at least 2.40 at a wavelength of 500 nm;

depositing upon said second metal oxide layer a second silver containing layer;

depositing upon said second silver containing layer a third metal oxide layer having a refractive index of at least 2.40 at a wavelength of 500 nm.

12. (Currently Amended) ~~An infra-red reflecting~~ A layered structure, ~~said layered structure~~ comprising consecutively:

an infra-red reflecting layered structure, said infra-red reflecting layered structure comprising:

a first transparent substrate layer;

a first metal oxide layer;
a first silver containing layer;
a second metal oxide layer;
a second silver containing layer;
a third metal oxide layer;

a first adhesive layer;

a second transparent substrate layer;

a second adhesive layer; and

a glass substrate.

wherein said infra-red reflecting layered structure further ~~comprising~~
comprises at least one protective intermediate layer comprising gold, said protective
intermediate layer being located between a silver containing layer and a metal oxide layer
and/or between a metal oxide layer and a silver containing layer;

wherein said first, second and third metal oxide layer is titanium dioxide
deposited by reactive DC magnetron sputtering from a substoichiometric TiO_x target where x
is in the range between 1.5 to 2, and

wherein said first, second and third metal oxide layer has a refractive index of
at least 2.40 at a wavelength of 500 nm and ~~said infra-red reflecting layered structure~~
~~laminated on glass~~, having a visual light transmittance (VLT) higher than 70 % and a solar
heat gain coefficient (SHGC) lower than 0.44.